## Rec'd PCT/PTO 16 JAN 2007

#### PATENT COOPERATION TREATY

**PCT** 

10/552606

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT-60	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/006027	International filing date (day/month/year) 07 May 2004 (07.05.2004)	Priority date (day/month/year) 09 May 2003 (09.05.2003)	
International Patent Classification (8th See relevant information in Form P	n edition unless older edition indicated) PCT/ISA/237		
Applicant SANYO CHEMICAL INDUSTRIES	, LTD.		

This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the

	International Searching Authority under Rule 44 bis. I(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any referent to the international preliminary re		the International Searching Authority should be read as a reference ter I) instead.		
3.	This report contains indications re	elating to the following item	is:		
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opi applicability	nion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention			
	Box No. V		r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inte	rnational application .		
	Box No. VIII	Certain observations on the	ne international application		
4.			ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but ler Article 23(2), before the expiration of 30 months from the priority		
			Date of issuance of this report 16 March 2006 (16.03.2006)		
The International Bureau of WIPO 34, chemin des Colombettes			Authorized officer  Yoshiko Kuwahara		
Facsin	1211 Geneva 20, Switzerland TOSHKO KUWAHATA Facsimile No. +41 22 740 14 35 Telephone No. +41 22 338 90 90				
Form F	PCT/IB/373 (January 2004)	-			

### PATENT COOPERATION TREATY

From the INTERNATION	NAL SEARCHIN	G AUTHOR	ITY		All
То:					PCT PCT
		٠			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	
Applicant's or a	gent's file reference	e .		FOR FURTHER A	ACTION See paragraph 2 below
International ap	plication No. 2004/0060	27	International filing date (	(day/month/year)	Priority date (day/month/year) 09.05.2003
International Pa	tent Classification	(IPC) or both	n national classification an	d IPC	
Applicant SANYO (	CHEMICAL	INDUST	TRIES, LTD.		•
1. This o		dications rela	ting to the following item:	s:	
	Box No. I	Basis of the	opinion .		
	Box No. II	Priority			
	Box No. III	Non-establi:	shment of opinion with re	gard to novelty, inventi	ive step and industrial applicability
	Box No. IV		y of invention		
N N	Box No. V		atement under Rule 43 <i>bis</i> c; citations and explanation		novelty, inventive step or industrial ement
*	Box No. VI	Certain docu	uments cited		
	Box No. VII	Certain defe	ects in the international ap	plication	
	Box No. VIII	Certain obse	ervations on the internatio	nal application	
	TUDD COMON				
If a d Interna than th	ational Preliminary his one to be the Il	Examining. PEA and the	Authority ("IPEA") excep	t that this does not app t the International Bure	l be considered to be a written opinion of the oly where the applicant chooses an Authority other eau under Rule 66.1bis(b) that written opinions of
If this writter	opinion is, as pro n reply together,	vided above, where approp	considered to be a writte	n opinion of the IPEA before the expiration	a, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
	rther options, see I	-			
3. For fu	rther details, see no	otes to Form	PCT/ISA/220.		
Name and maili	ng address of the I	SA/JP		Authorized officer	
Facsimile No.				Telephone No.	

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/006027

Box	t No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	-	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed atton, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/006027

Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-16	YES
		· Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-16	NO
	Industrial applicability (IA)	Claims	1-16	YES
		Claims	· · · · · · · · · · · · · · · · · · ·	NO
			, , , , , , , , , , , , , , , , , , , ,	

#### 2. Citations and explanations:

Document 1: JP, 2002-184726, A (K.K. Okamoto Kosaku Kikai Seisakusho), 28 June, 2002 (28.06.02), claims 1 and 3

Document 2: JP, 10-172935, A (Fujimi Inc.), 26 June, 1998 (26.06.98), [0001], [0002], [0018]-[0022], [0032], & US, 6027669, A

Document 3: JP, 2003-86548, A (Hitachi, Ltd.), 20 March, 2003 (20.03.03), [0004], [0030], page 6, Table 1, & US, 2003-0025200, A1

Document 4: JP, 2000-280165, A (Applied Materials Inc.), 10 October, 2000 (10.10.00), [0020] and [0021], Fig. 4, & EP, 1038635, A2

The subject matters of claims 1, 5 and 7 do not appear to involve an inventive step in view of document 1, 2 or 3 cited in the ISR. Documents 1-3 describe a polishing liquid for CMP processes that comprises an abrasive, an aqueous solvent and an additive. The diameters and concentrations of abrasive particles described in claims 1, 5 and 7 would be within an extent that could have been easily conceived of by a person skilled in the art.

The subject matters of claims 2-4 do not appear to involve an inventive step in view of document 1 or 2 cited in the ISR. Documents 1 and 2 describe that an additive such as ammonia is added at 0.01 percent by weight.

The subject matter of claim 6 does not appear to involve an inventive step in view of document 1 or 3 cited in the ISR. Documents 1 and 3 describe colloidal silica as an additive.

The subject matters of claims 8, 14 and 15 do not appear to involve an inventive step in view of document 2 or 3 cited in the ISR. Documents 2 and 3 describe that an insulation film of, for example, silicon oxide is polished.

The subject matters of claims 9 and 10 do not appear to involve an inventive step in view of document 3 cited in the ISR. Document 3 describes two-stage polishing by means of different kinds of abrasives.

The subject matters of claims 11-13 do not appear to involve an inventive step in view of document 1, 2, 3 or 4 cited in the ISR. The matters described in claims 11-13 are described in document 4.

The subject matter of claim 16 does not appear to involve an inventive step in view of document 2 cited in the ISR. Document 2 describes uses of the polisher for various industrial products, and a person skilled in the art could have easily conceived of the idea of using it for

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/006027

Box No. V	Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
magnet	magnetic heads or liquid-crystal displays as specific examples.				
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